

## United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/509,302	09/23/2004	Weichang Zhou	21069P	3668
210 75	590 06/02/2006		EXAMINER	
MERCK AND CO., INC			CHEN, STACY BROWN	
P O BOX 2000 RAHWAY, NJ 07065-0907			ART UNIT	PAPER NUMBER
,,			1648	
			DATE MAILED: 06/02/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	_
	10/509,302	ZHOU ET AL.	
Office Action Summary	Examiner	Art Unit	
	Stacy B. Chen	1648	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).	
Status			
<ul> <li>1) Responsive to communication(s) filed on 23 Set</li> <li>2a) This action is FINAL. 2b) This</li> <li>3) Since this application is in condition for alloward closed in accordance with the practice under E</li> </ul>	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4) ☐ Claim(s) 1-46 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-46 are subject to restriction and/or expressions.	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction.  11) The oath or declaration is objected to by the Examiner	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No d in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary		
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite atent Application (PTO-152)	

Application/Control Number: 10/509,302

Art Unit: 1648

## **DETAILED ACTION**

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- Group I, claim(s) 1-30, drawn to a method of large scale virus production. The
   special technical feature of this group is the use of gas sparging in virus production.
- Group II, claim(s) 31-35, 37-41, 43 and 45, drawn to a method of producing a virus seed stock free of cell-lysis components. The special technical feature of this group is the production and harvesting of intracellular and extracellular virus from host cells without the aid of any added cell-lysis component.
- Group III, claim(s) 36, 42, 44 and 46, drawn to an unclarified virus seed stock. The special technical feature of this group is the production and harvesting of intracellular and extracellular virus from host cells without the aid of any added cell-lysis component.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The special technical feature of these Groups are related in that the method of Group II produces the product of Group III, which can be used in

Application/Control Number: 10/509,302

Art Unit: 1648

the methods of Group I. However, the prior art teaches Applicant's special technical feature. Zhang (6,194,191) teaches a method for the production and purification of adenoviral vectors comprising growing host cells, infecting with adenovirus, harvesting and lysing using a method such as impinging jets and hollow fiber ultrafiltration (col. 2, lines 58-61 and col. 12, line 49). Gas sparging can be used in Zhang's method (col. 11, lines 1-11). Pluronic®F-68 (0.1%) can be used in the culture (col. 4, lines 25-28). Also taught are methods of purification of adenovirus from cell lysates, such as clarification, concentration and diafiltration. Therefore, the special technical feature is anticipated by and suggested by the prior art and the claims lack unity of invention.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should Applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Application/Control Number: 10/509,302

Art Unit: 1648

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stacy B. Chen whose telephone number is 571-272-0896. The examiner can normally be reached on M-F (7:00-4:30). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

\*\*Ham B. Chen 5/31/06\*\*

Stacy B. Chen

Primary Examiner

May 31, 2006